



SEQUENCE LISTING

<110> Yeda Research & Development Company Limited at the
Bio-Technology General Corp.

<120> Tumor Associated Antigen Peptides and Use of Same as
Anti-Tumor Vaccines

<130> EISENBACH=3

<140> 09/744,804

<141> 2001-06-20

<150> IL 125608

<151> 1998-07-30

<160> 78

<170> PatentIn Ver. 2.1

<210> 1

<211> 9

<212> PRT

<213> Homo sapiens

<400> 1

Phe Leu Leu Val Leu Gly Phe Ile Ile

1

5

<210> 2

<211> 9

<212> PRT

<213> Homo sapiens

<400> 2

Val Leu Pro Ser Val Ala Met Phe Leu

1

5

<210> 3

<211> 9

<212> PRT

<213> Homo sapiens

<400> 3

Leu Val Leu Gly Phe Ile Ile Ala Leu

1

5

<210> 4

<211> 9

<212> PRT

<213> Homo sapiens

<400> 4
Lys Val Val Thr Ser Ser Phe Val Val
1 5

<210> 5
<211> 9
<212> PRT
<213> Homo sapiens

<400> 5
Leu Val Pro Gly Thr Lys Phe Tyr Ile
1 5

<210> 6
<211> 9
<212> PRT
<213> Homo sapiens

<400> 6
Leu Leu Pro Ile Arg Thr Leu Pro Leu
1 5

<210> 7
<211> 9
<212> PRT
<213> Homo sapiens

<400> 7
Tyr Leu Val Lys Lys Gly Thr Ala Thr
1 5

<210> 8
<211> 9
<212> PRT
<213> Homo sapiens

<400> 8
Ser Leu Phe Ala Glu Thr Ile Trp Val
1 5

<210> 9
<211> 9
<212> PRT
<213> Homo sapiens

<400> 9
Met Leu Ile Ala Met Tyr Phe Tyr Thr

1 5

<210> 10
<211> 9
<212> PRT
<213> Homo sapiens

<400> 10
Leu Met Trp Thr Leu Pro Val Met Leu
1 5

<210> 11
<211> 9
<212> PRT
<213> Homo sapiens

<400> 11
Met Leu Ile Val Tyr Ile Phe Glu Cys
1 5

<210> 12
<211> 9
<212> PRT
<213> Homo sapiens

<400> 12
Tyr Ile Phe Glu Cys Ala Ser Cys Ile
1 5

<210> 13
<211> 9
<212> PRT
<213> Homo sapiens

<400> 13
Leu Val Leu Met Leu Ile Val Tyr Ile
1 5

<210> 14
<211> 9
<212> PRT
<213> Homo sapiens

<400> 14
Ala Leu Cys Arg Arg Arg Ser Met Val
1 5

<210> 15
<211> 9
<212> PRT
<213> Homo sapiens

<400> 15
Leu Leu Ser Gly Leu Ser Leu Phe Ala
1 5

<210> 16
<211> 9
<212> PRT
<213> Homo sapiens

<400> 16
Phe Leu Leu Val Val Gly Leu Ile Val
1 5

<210> 17
<211> 9
<212> PRT
<213> Homo sapiens

<400> 17
Leu Val Val Gly Leu Ile Val Ala Leu
1 5

<210> 18
<211> 9
<212> PRT
<213> Homo sapiens

<400> 18
Lys Val Val Lys Ser Asp Phe Val Val
1 5

<210> 19
<211> 9
<212> PRT
<213> Homo sapiens

<400> 19
Thr Leu Pro Val Gln Thr Leu Pro Leu
1 5

<210> 20
<211> 9

<212> PRT
<213> Homo sapiens

<400> 20
Asp Leu His Val Ile Ser Asn Asp Val
1 5

<210> 21
<211> 9
<212> PRT
<213> Homo sapiens

<400> 21
Val Leu Val His Pro Gln Trp Val Leu
1 5

<210> 22
<211> 9
<212> PRT
<213> Homo sapiens

<400> 22
Phe Leu Arg Pro Gly Asp Asp Ser Ser
1 5

<210> 23
<211> 9
<212> PRT
<213> Homo sapiens

<400> 23
Ala Leu Gly Thr Thr Cys Tyr Ala Ser
1 5

<210> 24
<211> 9
<212> PRT
<213> Homo sapiens

<400> 24
Lys Leu Gln Cys Val Asp Leu His Val
1 5

<210> 25
<211> 9
<212> PRT
<213> Homo sapiens

<400> 25
Glu Leu Ala His Tyr Asp Val Leu Leu
1 5

<210> 26
<211> 9
<212> PRT
<213> Homo sapiens

<400> 26
Asn Leu Asn Gly Ala Gly Asp Pro Leu
1 5

<210> 27
<211> 9
<212> PRT
<213> Homo sapiens

<400> 27
Thr Leu Arg Val Asp Cys Thr Pro Leu
1 5

<210> 28
<211> 9
<212> PRT
<213> Homo sapiens

<400> 28
Met Met Asn Asp Gln Leu Met Phe Leu
1 5

<210> 29
<211> 9
<212> PRT
<213> Homo sapiens

<400> 29
Ala Leu Phe Asp Ile Glu Ser Lys Val
1 5

<210> 30
<211> 9
<212> PRT
<213> Homo sapiens

<400> 30
Leu Leu His Glu Thr Asp Ser Ala Val
1 5

<210> 31
<211> 9
<212> PRT
<213> Homo sapiens

<400> 31
Val Leu Ala Lys Glu Leu Lys Phe Val
1 5

<210> 32
<211> 9
<212> PRT
<213> Homo sapiens

<400> 32
Ile Leu Leu Trp Gln Pro Ile Pro Val
1 5

<210> 33
<211> 9
<212> PRT
<213> Homo sapiens

<400> 33
Asp Leu Phe Gly Ile Trp Ser Lys Val
1 5

<210> 34
<211> 9
<212> PRT
<213> Homo sapiens

<400> 34
Pro Leu Glu Arg Phe Ala Glu Leu Val
1 5

<210> 35
<211> 9
<212> PRT
<213> Homo sapiens

<400> 35
Lys Gln Gly Asn Phe Asn Ala Trp Val
1 5

<210> 36
<211> 9
<212> PRT
<213> Homo sapiens

<400> 36
Asn Leu Leu Arg Arg Met Trp Val Thr
1 5

<210> 37
<211> 9
<212> PRT
<213> Homo sapiens

<400> 37
Asn Leu Phe Glu Thr Pro Ile Leu Ala
1 5

<210> 38
<211> 9
<212> PRT
<213> Homo sapiens

<400> 38
Asn Leu Phe Glu Thr Pro Val Glu Ala
1 5

<210> 39
<211> 9
<212> PRT
<213> Homo sapiens

<400> 39
Gly Leu Gln His Trp Val Pro Glu Leu
1 5

<210> 40
<211> 9
<212> PRT
<213> Homo sapiens

<400> 40
Val Gln Phe Val Ala Ser Tyr Lys Val
1 5

<210> 41
<211> 9
<212> PRT

<213> Homo sapiens

<400> 41

Arg Leu Leu Ala Ala Leu Cys Gly Ala
1 5

<210> 42

<211> 9

<212> PRT

<213> Homo sapiens

<400> 42

Leu Leu Leu Leu Thr Val Leu Thr Val
1 5

<210> 43

<211> 9

<212> PRT

<213> Homo sapiens

<400> 43

Leu Leu Leu Thr Val Leu Thr Val Val
1 5

<210> 44

<211> 9

<212> PRT

<213> Homo sapiens

<400> 44

Phe Leu Ser Phe His Ile Ser Asn Leu
1 5

<210> 45

<211> 9

<212> PRT

<213> Homo sapiens

<400> 45

Leu Leu Val Leu Val Cys Val Leu Val
1 5

<210> 46

<211> 9

<212> PRT

<213> Homo sapiens

<400> 46

Ala Leu Leu Val Leu Val Cys Val Leu
1 5

<210> 47
<211> 9
<212> PRT
<213> Homo sapiens

<400> 47
Ser Leu Ser Tyr Thr Asn Pro Ala Val
1 5

<210> 48
<211> 9
<212> PRT
<213> Homo sapiens

<400> 48
Asn Leu Thr Ile Ser Asp Val Ser Val
1 5

<210> 49
<211> 9
<212> PRT
<213> Homo sapiens

<400> 49
Ala Leu Ala Ser Thr Ala Pro Pro Val
1 5

<210> 50
<211> 9
<212> PRT
<213> Homo sapiens

<400> 50
Ala Ile Leu Cys Trp Thr Phe Trp Val
1 5

<210> 51
<211> 9
<212> PRT
<213> Homo sapiens

<400> 51
Phe Ile Leu Met Phe Ile Val Tyr Ala
1 5

<210> 52
<211> 9
<212> PRT
<213> Homo sapiens

<400> 52
Leu Thr Ala Glu Cys Ile Phe Phe Val
1 5

<210> 53
<211> 9
<212> PRT
<213> Homo sapiens

<400> 53
Met Leu Gln Asp Asn Cys Cys Gly Val
1 5

<210> 54
<211> 9
<212> PRT
<213> Homo sapiens

<400> 54
Ile Leu Cys Trp Thr Phe Trp Val Leu
1 5

<210> 55
<211> 9
<212> PRT
<213> Homo sapiens

<400> 55
Lys Ile Leu Leu Ala Tyr Phe Ile Leu
1 5

<210> 56
<211> 9
<212> PRT
<213> Homo sapiens

<400> 56
Phe Val Gly Ile Cys Leu Phe Cys Leu
1 5

<210> 57

<211> 9
<212> PRT
<213> Homo sapiens

<400> 57
Val Leu Leu Ser Val Ala Met Phe Leu
1 5

<210> 58
<211> 9
<212> PRT
<213> Homo sapiens

<400> 58
Leu Leu Ser Val Ala Met Phe Leu Leu
1 5

<210> 59
<211> 9
<212> PRT
<213> Homo sapiens

<400> 59
Ile Leu Gly Ser Leu Pro Phe Phe Leu
1 5

<210> 60
<211> 9
<212> PRT
<213> Homo sapiens

<400> 60
Ile Leu Asn Ala Tyr Leu Val Arg Val
1 5

<210> 61
<211> 9
<212> PRT
<213> Homo sapiens

<400> 61
Phe Leu Leu Val Gly Phe Ala Gly Ala
1 5

<210> 62
<211> 9
<212> PRT
<213> Homo sapiens

<400> 62
Asn Leu Gln Pro Gln Leu Ala Ser Val
1 5

<210> 63
<211> 9
<212> PRT
<213> Homo sapiens

<400> 63
Cys Met Phe Asp Ser Lys Glu Ala Leu
1 5

<210> 64
<211> 9
<212> PRT
<213> Homo sapiens

<400> 64
Tyr Leu Tyr Val Leu Val Asp Ser Ala
1 5

<210> 65
<211> 9
<212> PRT
<213> Homo sapiens

<400> 65
Tyr Met Asp Gly Thr Met Ser Gln Val
1 5

<210> 66
<211> 9
<212> PRT
<213> Homo sapiens

<400> 66
Lys Met Ala Arg Phe Ser Tyr Ser Val
1 5

<210> 67
<211> 9
<212> PRT
<213> Homo sapiens

<400> 67
Gly Leu Val Met Asp Glu His Leu Val

1 5

<210> 68
<211> 9
<212> PRT
<213> Homo sapiens

<400> 68
Phe Leu Pro Gly Cys Asp Gly Leu Val
1 5

<210> 69
<211> 9
<212> PRT
<213> Homo sapiens

<400> 69
Cys Met Leu Gly Ser Phe Cys Ala Cys
1 5

<210> 70
<211> 9
<212> PRT
<213> Homo sapiens

<400> 70
Tyr Leu Ala Phe Arg Asp Asp Ser Ile
1 5

<210> 71
<211> 9
<212> PRT
<213> Homo sapiens

<400> 71
Trp Leu Pro Lys Lys Cys Ser Leu Cys
1 5

<210> 72
<211> 9
<212> PRT
<213> Homo sapiens

<400> 72
Cys Leu Asn Gly Gly Thr Cys Met Leu
1 5

<210> 73
<211> 9
<212> PRT
<213> Homo sapiens

<400> 73
Met Leu Val Gly Ile Cys Leu Ser Ile
1 5

<210> 74
<211> 9
<212> PRT
<213> Homo sapiens

<400> 74
Phe Glu Leu Gly Leu Val Ala Gly Leu
1 5

<210> 75
<211> 9
<212> PRT
<213> Homo sapiens

<400> 75
Lys Met Val Arg Phe Ser Tyr Ser Val
1 5

<210> 76
<211> 9
<212> PRT
<213> Homo sapiens

<400> 76
Cys Leu Asn Glu Gly Thr Cys Met Leu
1 5

<210> 77
<211> 9
<212> PRT
<213> Homo sapiens

<400> 77
Met Leu Ala Gly Ile Cys Leu Ser Ile
1 5

<210> 78
<211> 387
<212> PRT
<213> Human Lactaherin

<400> 78

Met Pro Arg Pro Arg Leu Leu Ala Ala Leu Cys Gly Ala Leu Leu Cys
1 5 10 15

Ala Pro Ser Leu Leu Val Ala Leu Asp Ile Cys Ser Lys Asn Pro Cys
20 25 30

His Asn Gly Gly Leu Cys Glu Glu Ile Ser Gln Glu Val Arg Gly Asp
35 40 45

Val Phe Pro Ser Tyr Thr Cys Thr Cys Leu Lys Gly Tyr Ala Gly Asn
50 55 60

His Cys Glu Thr Lys Cys Val Glu Pro Leu Gly Met Glu Asn Gly Asn
65 70 75 80

Ile Ala Asn Ser Gln Ile Ala Ala Ser Ser Val Arg Val Thr Phe Leu
85 90 95

Gly Leu Gln His Trp Val Pro Glu Leu Ala Arg Leu Asn Arg Ala Gly
100 105 110

Met Val Asn Ala Trp Thr Pro Ser Ser Asn Asp Asp Asn Pro Trp Ile
115 120 125

Gln Val Asn Leu Leu Arg Arg Met Trp Val Thr Gly Val Val Thr Gln
130 135 140

Gly Ala Ser Arg Leu Ala Ser His Glu Tyr Leu Lys Ala Phe Lys Val
145 150 155 160

Ala Tyr Ser Leu Asn Gly His Glu Phe Asp Phe Ile His Asp Val Asn
165 170 175

Lys Lys His Lys Glu Phe Val Gly Asn Trp Asn Lys Asn Ala Val His
180 185 190

Val Asn Leu Phe Glu Thr Pro Val Glu Ala Gln Tyr Val Arg Leu Tyr
195 200 205

Pro Thr Ser Cys His Thr Ala Cys Thr Leu Arg Phe Glu Leu Leu Gly
210 215 220

Cys Glu Leu Asn Gly Cys Ala Asn Pro Leu Gly Leu Lys Asn Asn Ser
225 230 235 240

Ile Pro Asp Lys Gln Ile Thr Ala Ser Ser Ser Tyr Lys Thr Trp Gly
245 250 255

Leu His Leu Phe Ser Trp Asn Pro Ser Tyr Ala Arg Leu Asp Lys Gln
260 265 270

Gly Asn Phe Asn Ala Trp Val Ala Gly Ser Tyr Gly Asn Asp Gln Trp
275 280 285

Leu Gln Val Asp Leu Gly Ser Ser Lys Glu Val Thr Gly Ile Ile Thr
290 295 300

Gln Gly Ala Arg Asn Phe Gly Ser Val Gln Phe Val Ala Ser Tyr Lys
305 310 315 320

Val Ala Tyr Ser Asn Asp Ser Ala Asn Trp Thr Glu Tyr Gln Asp Pro
325 330 335

Arg Thr Gly Ser Ser Lys Ile Phe Pro Gly Asn Trp Asp Asn His Ser
340 345 350

His Lys Lys Asn Leu Phe Glu Thr Pro Ile Leu Ala Arg Tyr Val Arg
355 360 365

Ile Leu Pro Val Ala Trp His Asn Arg Ile Ala Leu Arg Leu Glu Leu
370 375 380

Leu Gly Cys
385